Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Pre Measurement recorded on: 30-04-19

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Item 19.1 of PWD SR 2018-						
	CC Road						
	Pujarappa house Rd	1	30.00	3.58	0.20	21.45	
		1	14.40	1.97	0.20	5.66	
	2nd main, 9th A cross	1	15.00	3.62	0.20	10.87	
		1	12.00	5.38	0.20	12.91	
		1	9.00	3.45	0.20	6.21	
	4th main, 2nd cross	1	3.90	1.00	0.20	0.78	
		1	4.50	2.05	0.20	1.85	
		1	2.00	3.00	0.20	1.20	
		1	3.50	3.20	0.20	2.24	
		1	4.00	3.30	0.20	2.64	
		1	5.60	3.10	0.20	3.47	
		1	8.30	3.10	0.20	5.15	
	Jayamangala house	1	6.50	3.20	0.20	4.16	
		1	12.00	3.00	0.20	7.20	
		1	11.50	3.50	0.20	8.05	
		1	30.00	3.08	0.20	18.45	
		1	7.00	3.08	0.20	4.31	
	Berm cutting						
		1	15.00	3.50	0.30	15.75	
	Second Bill						
	CC Road						
	Cross Road	1	30.00	3.00	0.20	18.00	
		1	30.00	3.00	0.20	18.00	
					Total Qty	**202.14**	**Cum**
					Qty Paid in First RA Bill	**166.14**	**Cum**
					Present Qty	**36.00**	**Cum**

PMC ARun
Newzen Consultants Bangalore

30/4/19
Assistant Engineer
Ward No.01
BBMP Bangalore

30/4/19
Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Yelk. Zn.)
Yelahanka, Bangalore

Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Pre Measurement recorded on: 12-05-19

Item No	Description of Item	No	Length	A.Breadth	A.Depth	Qty	Unit
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / Item 2.3 SR 2018-19)						
	For CC Drain						
	Road A	1	30.00	1.00	0.95	28.50	
		1	23.00	1.00	0.95	21.85	
	Road B	1	25.00	1.00	0.95	23.75	
	Road C	1	30.00	1.00	0.95	28.50	
		1	30.00	1.00	0.95	28.50	
		1	10.00	1.00	0.95	9.50	
	Road D	1	30.00	1.00	0.95	28.50	
		1	8.00	1.00	0.95	7.60	
		1	18.00	1.00	0.95	17.10	
	Road E	1	22.00	1.00	0.95	20.90	
	Vivekananda Road, LHS	1	30.00	1.00	0.95	28.50	
		1	30.00	1.00	0.95	28.50	
		1	19.00	1.00	0.95	18.05	
	Vivekananda Road, RHS	1	30.00	1.00	0.95	28.50	
		1	30.00	1.00	0.95	28.50	
		1	19.00	1.00	0.95	18.05	
	32nd cross	1	25.50	1.00	0.95	24.23	
	Thathappa house road	1	30.00	1.00	0.95	28.50	
	Karaga Poojari house road	1	12.00	1.00	0.95	11.40	
	Culvert 1	1	7.00	1.60	1.00	11.20	
	Culvert 2	1	7.00	1.60	1.00	11.20	
	Second Bill						
	RCC Drain						
	Road A	1	17.00	1.05	0.95	16.96	
	Road B, R/s	1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	10.50	1.05	0.95	10.47	
	Road B, L/s	1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	4.50	1.05	0.95	4.49	

Item No	Description of Item	No	Length	A.Breadth	A.Depth	Qty	Unit
	Road C	1	26.50	1.05	0.95	26.43	
		1	23.50	1.05	0.95	23.44	
		1	4.00	1.05	0.95	3.99	
	Road D	1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	1.00	1.05	0.95	1.00	
		1	5.15	1.05	0.95	5.14	
		1	26.50	1.05	0.95	26.43	
		1	6.50	1.05	0.95	6.48	
		1	4.30	1.05	0.95	4.29	
		1	26.00	1.05	0.95	25.94	
		1	13.50	1.05	0.95	13.47	
	3rd cross	1	25.00	1.05	0.95	24.94	
	4th cross	1	17.20	1.05	0.95	17.16	
	6th cross Rd upto Dead end	1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	5.50	1.05	0.95	5.49	
		1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	30.00	1.05	0.95	29.93	
		1	7.50	1.05	0.95	7.48	
	For Berm Cutting	1	30.00	1.90	0.20	11.40	
		1	30.00	2.05	0.25	15.38	
	Culvert 1	1	7.00	1.80	1.20	15.12	
	Culvert 2	1	7.00	1.80	1.20	15.12	
					Total Qty	**1091.030**	**Cum**
					Qty Paid in First RA Bill	**447.64**	**Cum**
					Present Qty	**643.39**	**Cum**
					Limit Qty	**642.15**	**Cum**

RMC
Newzen Consultants Bangalore

Assistant Engineer
Ward No.01
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub-Division
BBMP Bangalore

Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Pre Measurement recorded on: 08-05-19

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.3 of PWD SR 2018-19)						
	For CC Drain						
	Road A	1	30.00	1.00	0.15	4.50	
		1	23.00	1.00	0.15	3.45	
	Road B	1	25.00	1.00	0.15	3.75	
	Road C	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	10.00	1.00	0.15	1.50	
	Road D	1	30.00	1.00	0.15	4.50	
		1	8.00	1.00	0.15	1.20	
		1	18.00	1.00	0.15	2.70	
	Road E	1	22.00	1.00	0.15	3.30	
	Vivekananda Road, LHS	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	19.00	1.00	0.15	2.85	
	Vivekananda Road, RHS	1	30.00	1.00	0.15	4.50	
		1	30.00	1.00	0.15	4.50	
		1	19.00	1.00	0.15	2.85	
	32nd cross	1	25.50	1.00	0.15	3.83	
	Thathappa house road	1	30.00	1.00	0.15	4.50	
	Karaga Poojari house road	1	12.00	1.00	0.15	1.80	
	Culvert 1	1	7.00	1.60	0.25	2.80	
	Culvert 2	1	7.00	1.60	0.25	2.80	
	CC Road						
	Pujarappa house Rd	1	30.00	3.58	0.20	21.45	
		1	14.40	1.97	0.20	5.66	
	2nd main, 9th A cross	1	15.00	3.62	0.15	2.13	
		1	12.00	5.38	0.15	9.68	
		1	9.00	3.45	0.15	4.66	
	4th main, 2nd cross	1	3.90	1.00	0.15	0.59	
		1	4.50	2.05	0.15	1.38	
		1	2.00	3.00	0.15	0.90	
		1	3.50	3.20	0.15	1.68	
		1	4.00	3.30	0.15	1.98	
		1	5.60	3.10	0.15	2.60	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	8.30	3.10	0.15	3.86	
	Jayamangala house	1	6.50	3.20	0.175	3.54	
		1	12.00	3.00	0.20	7.20	
		1	11.50	3.50	0.20	8.05	
		1	30.00	4.50	0.20	27.00	
		1	15.00	3.50	0.20	10.50	
		1	15.00	0.60	0.15	1.35	
		1	7.60	1.20	0.20	1.82	
		1	7.60	1.40	0.20	2.13	
		1	7.50	1.10	0.20	1.65	
		1	7.80	1.40	0.20	2.18	
	Second Bill						
	RCC Drain						
	Road A	1	17.00	1.05	0.15	2.68	
	Road B, R/s	1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	10.50	1.05	0.15	1.65	
	Road B, L/s	1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	4.50	1.05	0.15	0.71	
	Road C	1	26.50	1.05	0.15	4.17	
		1	23.50	1.05	0.15	3.70	
		1	4.00	1.05	0.20	0.84	
	Road D	1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	1.00	1.05	0.15	0.16	
		1	5.15	1.05	0.15	0.81	
		1	26.50	1.05	0.15	4.17	
		1	6.50	1.05	0.15	1.02	
		1	4.30	1.05	0.15	0.68	
		1	26.00	1.05	0.15	4.10	
		1	13.50	1.05	0.15	2.13	
	3rd cross	1	25.00	1.05	0.15	3.94	
	4th cross	1	17.20	1.05	0.15	2.71	
	6th cross Rd upto Dead end	1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	30.00	1.05	0.15	4.73	
		1	5.50	1.05	0.15	0.87	
		1	30.00	1.05	0.18	5.51	
		1	30.00	1.05	0.18	5.51	
		1	30.00	1.05	0.18	5.51	
		1	7.50	1.05	0.15	1.18	
	CC Road						
	Cross Road	1	30.00	3.06	0.15	13.77	
		1	30.00	3.00	0.15	13.50	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Culvert 1	1	7.00	1.80	0.20	2.52	
	Culvert 2	1	7.00	1.80	0.20	2.52	
					Total Qty	**322.213**	**Cum**
					Qty Paid in First RA Bill	**194.24**	**Cum**
					Present Qty	**127.53**	**Cum**
					Limit Qty	**127.35**	**Cum**

PMC
Newzen Consultants Bangalore

Assistant Engineer
Ward No.01
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub-Division
BBMP Bangalore

Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

e Measurement recorded on: 10-05-19

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3- TMT bars Fe 500`(PW,P& IWTD SR 2018-19, Pg No 17 Item No.4.46.2)						
	CC drain						
	Road A						
	Total Drain length=53m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=424.00Nos	424	1.65		0.61	426.76	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	53.00		0.39	227.37	
	Road B						
	Total Drain length=25m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=200.00Nos	200	1.65		0.61	201.30	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	25.00		0.39	107.25	
	Road C						
	Total Drain length=70m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=560.00Nos	560	1.65		0.61	563.64	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	70.00		0.39	300.30	
	Road D						
	Total Drain length=56m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=448.00Nos	448	1.65		0.61	450.91	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	56.00		0.39	240.24	
	Road E						
	Total Drain length=22m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=176.00Nos	176	1.65		0.61	177.14	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	22.00		0.39	94.38	
	Vivekananda Road, LHS						
	Total Drain length=79m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=632.00Nos	632	1.65		0.61	636.11	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	79.00		0.39	338.91	
	Vivekananda Road, RHS						
	Total Drain length=79m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=632.00Nos	632	1.65		0.61	636.11	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	79.00		0.39	338.91	
	32nd cross						
	Total Drain length=25.5m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=204.00Nos	204	1.65		0.61	205.33	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	25.50		0.39	109.40	
	Thathappa house road						
	Total Drain length=30m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=240.00Nos	240	1.65		0.61	241.56	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	30.00		0.39	128.70	
	Karaga Poojari house road						
	Total Drain length=12m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=96.00Nos	96	1.65		0.61	96.62	
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	11	12.00		0.39	51.48	
	Culvert						
	Total length=14m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=112.00Nos	112	1.60		0.61	109.31	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Distribution bar						
	Distribution bar 8mm dia						
	0.39kg/mtr	14	14.00		0.39	76.44	
	Second Bill						
	Road A						
	Total Drain length=17m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=136.00Nos	136	1.65		0.61	136.88	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	12	17.00		0.61	124.44	
	Road B						
	Total Drain length=135m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=1080.00Nos	1080	1.65		0.61	1087.02	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	12	135.00		0.61	988.20	
	Road C						
	Total Drain length=54m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=432.00Nos	432	1.65		0.61	434.81	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	12	54.00		0.61	395.28	
	Road D						
	Total Drain length=142.95m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=1143.00Nos	1143	1.65		0.61	1150.43	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	12	142.95		0.61	1046.39	
	3rd cross						
	Total Drain length=25m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=200.00Nos	200	1.65		0.61	201.30	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	12	25.00		0.61	183.00	
	4th cross						
	Total Drain length=17.2m						
	Main bar 10mm dia bar						
	0.61kg/mtr						

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	No of U-bar=137.00Nos	137	1.65		0.61	137.89	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	12	17.20		0.61	125.90	
	6th cross Rd upto Dead end						
	Total Drain length=193m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=193.00Nos	1544	1.65		0.61	1554.04	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	13	193.00		0.61	1530.49	
	Culvert						
	Total Culvert length=14m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=193.00Nos	112	2.40		0.61	163.97	
	Distribution bar						
	Main bar 10mm dia bar						
	0.61kg/mtr	34	14.00		0.61	290.36	
					Total Qty	**15308.57**	**Kg**
					Total Qty	**15.31**	**Tn**
					Qty Paid in First RA Bill	**5.76**	**Tn**
					Present Qty	**9.55**	**Tn**

PMC
Newzen Consultants Bangalore

Assistant Engineer
Ward No.01
BBMP Bangalore

10/5/19
Asst. Executive Engineer,
Yelahanka Sub Division
(BBMP Ynk Zn)
Yelahanka, Bangalore

Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Pre Measurement recorded on:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
12	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (Item 17.1 of KPWD SR 2018-19)						
	First Bill						
	Qty from Item 1 and 2	1				166.14	
		2				447.64	
	Second Bill						
	Qty from Item 1 and 2	1				36.00	
		2				642.15	
					Total Qty	**1291.93**	**Cum**
					Qty Paid in First RA Bill	**613.78**	**Cum**
					Present Qty	**678.15**	**Cum**

PMC
Newzen Consultants Bangalore

Assistant Engineer
Ward No.01
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zp)
Yelahanka, Bangalore

Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Pre Measurement recorded on:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Item 19.1 of PWD SR 2018-						
	Vide premeasurement page no. 1					36.00	
					Present Qty	**36.00**	**Cum**
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per						
	Vide premeasurement page no. 2 to 3					642.15	
					Present Qty	**642.15**	**Cum**
3	KSRB4.1.3: Providing and laying position plain cement concrete of Mix 1:4:8 with OPC cement @180Kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed , concrete laid in layers not exeecding 15 cms, thick, well compacted , in foundation , including cost of all materials, Labour , HOM of Machinery, Curing complete as per Specifications. Specifications No. KBS 4.1, 4.2 (P12/4.3). SR 2018-19						
	Vide premeasurement page no. 4 to 6					127.35	
					Present Qty	**127.35**	**Cum**
5	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as						
	Vide premeasurement page no. 7 to 10					9.55	
					Present Qty	**9.55**	**Tn**
12	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/						
	Vide premeasurement page no. 11					678.15	
					Present Qty	**678.15**	**Cum**

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Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Bangalore)
Yelahanka, Bangalore

Name of Work:- **Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01**

Measurement recorded on: 18-05-19

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to 20 cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MORTH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture (KPWD SR 2018-19 Item No-37.59.2)						
	For Raft						
	For CC Drain						
	Road A	1	30.00	0.75	0.15	3.38	
		1	23.00	0.75	0.15	2.59	
	Road B	1	25.00	0.75	0.15	2.81	
	Road C	1	30.00	0.75	0.15	3.38	
		1	30.00	0.75	0.15	3.38	
		1	10.00	0.75	0.15	1.13	
	Road D	1	30.00	0.75	0.15	3.38	
		1	8.00	0.75	0.15	0.90	
		1	18.00	0.75	0.15	2.03	
	Road E	1	22.00	0.75	0.15	2.48	
	Vivekananda Road, LHS	1	30.00	0.75	0.15	3.38	
		1	30.00	0.75	0.15	3.38	
		1	19.00	0.75	0.15	2.14	
	Vivekananda Road, RHS	1	30.00	0.75	0.15	3.38	
		1	30.00	0.75	0.15	3.38	
		1	19.00	0.75	0.15	2.14	
	32nd cross	1	25.50	0.75	0.15	2.87	
	Thathappa house road	1	30.00	0.75	0.15	3.38	
	Karaga Poojari house road	1	12.00	0.75	0.15	1.35	
	Culvert 1	1	7.00	1.50	0.15	1.58	
	Culvert 2	1	7.00	1.50	0.15	1.58	
	For Wall						
	For CC Drain						
	Road A	2	30.00	0.15	0.45	4.05	
		2	23.00	0.15	0.45	3.11	
	Road B	2	25.00	0.15	0.45	3.38	
	Road C	2	30.00	0.15	0.45	4.05	
		2	30.00	0.15	0.45	4.05	
		2	10.00	0.15	0.45	1.35	
	Road D	2	30.00	0.15	0.45	4.05	
		2	8.00	0.15	0.45	1.08	
		2	18.00	0.15	0.45	2.43	
	Road E	2	22.00	0.15	0.45	2.97	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Vivekananda Road, LHS	2	30.00	0.15	0.45	4.05	
		2	30.00	0.15	0.45	4.05	
	Vivekananda Road, RHS	2	19.00	0.15	0.45	2.57	
		2	30.00	0.15	0.45	4.05	
		2	30.00	0.15	0.45	4.05	
	32nd cross	2	19.00	0.15	0.45	2.57	
	Thathappa house road	2	25.50	0.15	0.45	3.44	
	Karaga Poojari house road	2	30.00	0.15	0.45	4.05	
	Culvert 1	2	12.00	0.15	0.45	1.62	
	Culvert 2	2	7.00	0.15	0.45	0.95	
	Second Bill	2	7.00	0.15	0.45	0.95	
	RCC Drain						
	Raft						
	Road A	1	17.00	0.90	0.15	2.30	
	Road B, R/s	1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	10.50	0.90	0.15	1.42	
	Road B, L/s	1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	4.50	0.90	0.15	0.61	
	Road C	1	26.50	0.90	0.15	3.58	
		1	23.50	0.90	0.15	3.17	
		1	4.00	0.90	0.15	0.54	
	Road D	1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	1.00	0.90	0.15	0.14	
		1	5.15	0.90	0.15	0.70	
		1	26.50	0.90	0.15	3.58	
		1	6.50	0.90	0.15	0.88	
		1	4.30	0.90	0.15	0.58	
		1	26.00	0.90	0.15	3.51	
		1	13.50	0.90	0.15	1.82	
	3rd cross	1	25.00	0.90	0.15	3.38	
	4th cross	1	17.20	0.90	0.15	2.32	
	6th cross Rd upto Dead end	1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	5.50	0.90	0.15	0.74	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	30.00	0.90	0.15	4.05	
		1	7.50	0.90	0.15	1.01	
	Culvert 1	1	7.00	1.20	0.15	1.26	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Culvert 2	1	7.00	1.20	0.15	1.26	
	Wall						
	Road A						
	Road B, R/s	2	17.00	0.20	0.60	4.08	
		2	30.00	0.20	0.60	7.20	
		2	30.00	0.15	0.60	5.40	
	Road B, L/s	2	10.50	0.15	0.60	1.89	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
	Road C	2	4.50	0.15	0.60	0.81	
		2	26.50	0.15	0.60	4.77	
		2	23.50	0.15	0.60	4.23	
	Road D	2	4.00	0.15	0.60	0.72	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	1.00	0.15	0.60	0.18	
		2	5.15	0.15	0.60	0.93	
		2	26.50	0.15	0.60	4.77	
		2	6.50	0.15	0.60	1.17	
		2	4.30	0.15	0.60	0.77	
		2	26.00	0.15	0.60	4.68	
		2	13.50	0.15	0.60	2.43	
	3rd cross	2	25.00	0.15	0.60	4.50	
	4th cross	2	17.20	0.15	0.60	3.10	
	6th cross Rd upto Dead end	2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	5.50	0.15	0.60	0.99	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	30.00	0.15	0.60	5.40	
		2	7.50	0.15	0.60	1.35	
		2	7.00	0.20	0.60	1.68	
	Culvert 1	2	7.00	0.20	0.60	1.68	
	Culvert 2				**Total Qty**	**303.000**	**Cum**
					Qty Paid in First RA Bill	**113.21**	**Cum**
					Present Qty	**189.79**	**Cum**
					Limit Qty	**189.01**	**Cum**

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18/5/19

Name of Work:- **Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01**

Measurement recorded on: 18-07-19

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
6	Providing and Fixing **RCC pre cast covering Slab of 100mm thick** for drains in cement concrete M20 using graded grinite jelly 20mm and down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in charge. (Data Rate)						
	For CC Drain						
	Road A	1	30.00	0.75		22.50	
		1	21.85	0.75		16.39	
	Road B	1	25.00	0.75		18.75	
	Road C	1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	10.00	0.75		7.50	
	Road D	1	30.00	0.75		22.50	
		1	8.00	0.75		6.00	
		1	18.00	0.75		13.50	
	Road E	1	22.00	0.75		16.50	
	Vivekananda Road, LHS	1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	19.00	0.75		14.25	
	Vivekananda Road, RHS	1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	19.00	0.75		14.25	
	32nd cross	1	25.50	0.75		19.13	
	Thathappa house road	1	30.00	0.75		22.50	
	Karaga Poojari house road	1	12.00	0.75		9.00	
	Second Bill						
	RCC Drain						
	Raft	1	17.00	0.75		12.75	
	Road A	1	30.00	0.75		22.50	
	Road B, R/s	1	30.00	0.75		22.50	
		1	10.50	0.75		7.88	
		1	30.00	0.75		22.50	
	Road B, L/s	1	30.00	0.75		22.50	
		1	4.50	0.75		3.38	
		1	26.50	0.75		19.88	
	Road C	1	23.50	0.75		17.63	
		1	4.00	0.75		3.00	
	Road D	1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	1.00	0.75		0.75	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		1	5.15	0.75		3.86	
		1	26.50	0.75		19.88	
		1	6.50	0.75		4.88	
		1	4.30	0.75		3.23	
		1	26.00	0.75		19.50	
		1	13.50	0.75		10.13	
	3rd cross	1	25.00	0.75		18.75	
	4th cross	1	17.20	0.75		12.90	
	6th cross Rd upto Dead end	1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	5.50	0.75		4.13	
		1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	30.00	0.75		22.50	
		1	7.50	0.75		5.63	
					Total Qty	**772.61**	**Sqm**
					Qty Paid in First RA Bill	**312.75**	**Sqm**
					Present Qty	**459.86**	**Sqm**

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Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Measurement recorded on: 13-06-19

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	Providing and Fixing **pre cast covering Slab 250mm thick** made out of CC 1:2:4 and jelly						
	For CC Culvert Top Covering Slab						
	Culvert 1	1	7.00	1.50		10.50	
	Culvert 2	1	7.00	1.50		10.50	
	Slab over existing culvert	1	2.00	1.50		3.00	
	Second Bill						
	Culvert 1	1	6.50	1.20		7.80	
	Culvert 2	1	7.00	1.20		8.40	
	Slab over existing culvert	1	4.00	1.20		4.80	
		1	2.50	1.20		3.00	
					Total Qty	**48.00**	**Sqm**
					Qty Paid in First RA Bill	**24.00**	**Sqm**
					Present Qty	**24.00**	**Sqm**

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BBMP Bangalore

Name of Work:- Improvements to roads and drains at Maruthinagara 4th main 1st and 2nd cross roads and surrounding areas in Kempegowda ward no - 01 and Improvements to roads and drains at Maruthinagara 2nd main 9th A cross road and surrounding areas in Kempegowda ward no - 01

Measurement recorded on: 10-06-19

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	Cement concrete pavement.Construction of un-reinforced plain **cement concrete pavement**, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix **M20/M30** , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved.						
	CC Drain						
	Side walls	2	25.50	0.15	0.60	4.59	
		1	7.00	1.80	0.20	2.52	
		2	7.00	0.25	0.70	3.46	
		1	7.00	1.60	0.20	2.52	
		2	7.00	0.28	0.70	3.46	
	CC Road						
	Pujarappa house Rd	1	30.00	3.58	0.15	16.09	
		1	14.40	1.97	0.15	4.25	
	2nd main, 9th A cross	1	15.00	3.62	0.15	8.15	
		1	12.00	5.38	0.15	9.68	
		1	9.00	3.45	0.15	4.66	
	4th main, 2nd cross	1	3.90	1.00	0.15	0.59	
		1	4.50	2.05	0.15	1.38	
		1	2.00	3.00	0.15	0.90	
		1	3.50	3.20	0.15	1.68	
		1	4.00	3.30	0.15	1.98	
		1	5.60	3.10	0.15	2.60	
		1	8.30	3.10	0.15	3.86	
	Jayamangala house	1	6.50	3.20	0.15	3.12	
		1	12.00	3.00	0.15	5.40	
		1	11.50	3.50	0.15	6.04	
		1	30.00	3.08	0.15	13.86	
		1	7.00	3.08	0.15	3.23	
	Second Bill						
	CC Road						
	Cross Road	1	30.00	3.06	0.125	11.48	
		1	30.00	3.00	0.125	11.25	
					Total Qty	**126.54**	**Cum**
					Qty Paid in First RA Bill	**103.84**	**Cum**
					Present Qty	**22.70**	**Cum**
					Limit Qty	**22.50**	**Cum**

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